EXHIBIT M



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Cont.

CD RAPID BLOOD AND URINE LEVELS ARE INDICATED, THERAPY WITH BENICILLIN DISOBIUM, SHOULD BE PARENTERAL ADMINISTRATION FOL. E PHYSICIAN'S DISCRETION, BY ORAL

ality testing should be performed prior to course of therapy to detect the possible istant organisms which may develop-

ATIONS

carrily contraindicated in patients who have in allergy.

isionally fatal hypersensitivity (anaphylacve been reported in patients on oral penicilough anaphylaxis is more frequent followherapy, it has occurred in patients on oral e reactions are more apt to occur in indiistory of penicillin hypersensitivity and/or a ivity to multiple allergens.

reports of individuals with a history of pensitivity who have experienced severe hypertions when treated with a cephalosporin, Before initiating therapy with a penicillin, should be made concerning previous hypertions to penicillins, cephalosporins, or other allergic reaction occurs, the drug should be id the appropriate therapy instituted

PHYLACTOID REACTIONS REQUIRE IM-ERGENCY TREATMENT WITH EPINEPH-N, INTRAVENOUS STEROIDS AND AIR-EMENT, INCLUDING INTUBATION.) BE ADMINISTERED AS INDICATED.

ith any penicillin preparation, an allergic reng anaphylaxis, may occur particularly in a individual.

of Geocillin may result in the overgrowth of organisms. If superinfection occurs during priate measures should be taken.

ilin is primarily excreted by the kidney, paere renal impairment (creatinine clearance of Vmin) will not achieve therapeutic urine lev-

th creatinine clearance of 10-20 ml/min it try to adjust dosage to prevent accumulation

sts: As with other penicillins, periodic as-gan system function including renal, hepatic, ietic systems is recommended during pro-

ons: Geocillin (carbenicillin indanyl sodium) ay be increased and prolonged by concurrent of probenecid.

is, Mutagenesis, Impairment of Fertility: ong term animal or human studies to evaluic potential. Rats fed 250-1000 mg/kg/day for eloped mild liver pathology (e.g., bile duct hyall dose levels, but there was no evidence of neoplasia. Geocillin administered at daily to 1000 mg/kg had no apparent effect on the roductive performance of rats.

tegory 8: Reproduction studies have been tose levels of 1000 or 500 mg/kg in rats, 200 and at 500 mg/kg in monkeys with no harm a Geocillin. There are, however, no adequate olled studies in pregnant women. Because antion studies are not always predictive of huthis drug should be used during pregnancy needed.

divery: It is not known whether the use of mans during labor or delivery has immediate verse effects on the fetus, prolongs the durar increases the likelihood that forceps delivery trical intervention or resuscitation of the newecessary.

ners: Carbenicillin class antibiotics are exalthough the amounts excreted are unknown; ition should be exercised if administered to a

Since only limited clinical data is available dren, the safety of Geocillin administration in p has not yet been established.

LEACTIONS

adverse reactions have been reported as posto Geocillin administration in controlled studlude 344 patients receiving Geocillin.

nel: The most frequent adverse reactions as-Geocillin therapy are related to the gastroin-Nauses, bad taste, diarrhea, vomiting, fistu-

Dermatologic: Popersensitivity reactions such as skin rash, urticaria, 288 frequently pruritos.

Hematologic: th other penicillins, anemia, thrombo-cytopenia, leukopenia, neutropenia, and cosinophilia have infrequently been observed. The clinical significance of these abnormalities is not known.

Miscellaneous: Other reactions rarely reported were hyperthermia, headache, itchy eyes, vaginitis, and loose stools.

Abnormalities of Hepatic Function Tests: Mild SGOT elevations have been observed following Geocillia administra

Geocillin is generally nontoxic, Geocillin when taken in excessive amounts may produce mild gastrointestinal irritation. The drug is rapidly excreted in the urine and symptoms are transitory. The usual symptoms of anaphylaxis may occur in hypersensitive individuals.

Carbenicillin blood levels achievable with Geocillin are very low, and toxic reactions as a function of overdosage should not occur systematically. The oral LD₅₀ in mice is 3,600 mg/kg, in rats 2,000 mg/kg, and in dogs is in excess of 500 mg/kg. kg. The lethal human dose is not known.

Although never reported, the possibility of accumulation of indanyl should be considered when large amounts of Geocilin are ingested. Free indole, which is a phenol derivative, may be potentially toxic. In general 8-15 grams of phenol, and presumably a similar amount of indole, are required orally before toxicity (peripheral vascular collapse) may occur. The metabolic by-products of indole are nontoxic. In patients with hepatic failure it may be possible for unmetabolized indole to accumulate.

The metabolic by-products of Geocillin, indanyl sulfate and glucuronide, as well as free carbenicillin, are dialyzable.

DOSAGE AND ADMINISTRATION

Geocillin is available as a coated tablet to be administered orally.

Usual Adult Dose

URINARY TRACT INFECTIONS Escherichia coli, Proteus

species, and Enterobacter Pseudomonas and Enterococcus

PROSTATITIS

Escherichia coli, Proteus mirabilis, Enterobacter and

1-2 tablets 4 times daily

2 tablets 4 times daily

2 tablets 4 times daily

HOW SUPPLIED

Geocillin is available as film-coated tablets in bottles of 100's NDC 0049-1430-66), and unit-dose packages of 100 (10 × 10's) (NDC 0049-1430-41). Each tablet contains carbenicillin indanyl sodium equivalent to 382 mg of carbeni-

Revised Sept. 1991

69-1970-00-2

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GEODON™ (ziprasidone HCI)

DESCRIPTION

GEODONTA is available as GEODON Capsules (ziprasidone hydrochloride) for oral administration. Ziprasidone is an antipsychotic agent that is chemically unrelated to phenothiazine or butyrophenone antipsychotic agents. It has a molecular weight of 412.94 (free base), with the following chemical name: 5-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl] ethyl] -6-chloro-1, 3-dihydro-2H-indol-2one. The empirical formula of C21H21CIN4OS (free base of ziprasidone) represents the following structural formula:

GEODON Capsules contain a monohydrochloride, monohydrate salt of ziprasidone. Chemically, ziprasidone hydrochloride monohydrate is 5-[2-14-(1,2-benzisothiazol-3-yl)-1-piperazinylethyll-6-chloro-1,3-dihydro-2H-indol-2-one, monohydrochloride, monohydrate. The empirical formula is mononyarochioride, mononyarate. The empirical formula is $C_{21}H_{21}CIN_4OS \cdot HCl \cdot H_2O$ and its molecular weight is 467.42. Ziprasidone hydrochloride monohydrate is a white to slightly pink powder.

GEODON Capsules are supplied for oral administration in 20 mg (blue/white), 40 mg (blue/blue), 60 mg (white/white), and 80 mg (blue/white) capsules. GEODON Capsules contain ziprasidone hydrochloride monohydrate, lactose, pregelatinized starch, and magnesium stearate.

CLINICAL PHARMACOLOGY

Dharmacadun amica

5HT_{1D}, and \$\alpha_1\$-adrenergic receptors (K, % of 4-8, 7-2, 0,4) ctively), and moderate affinity or (K,=47 nM). Ziprasidone 3.4. 2. and 10 nM. the histamine H₁ . tioned as an antagonis, at the D2, SHT2A, and SHT1D TE tors, and as an agonist at the SHT1A receptor, Zipraside inhibited synaptic reuptake of scrotonin and norepin inhibited synaptic reuptake or serousin and interpretation. No appreciable affinity was exhibited for other retor/binding sites tested, including the chalinergic mu

rinic receptor (IC₂₀ > 1 µM)

The mechanism of action of ziprasidone, as with other discovering the control of the control o The mechanism of action of ziprasocous, in having efficacy in schizophrenia, is unknown. However, that this dem's efficacy in schizophren. has been proposed that this drug's efficacy in schizophre is mediated through a combination of dopamine type 2 01 is mediated through a combination or organism eye zurand serotonin type; 2 (5HT₂) antagonism. Antagonism ereptors other than dopamine and 5HT₂ with similar retor affinities may explain some of the other therapeuter. side effects of ziprasidone

Ziprasidone's antagonism of histamune H₁ receptors may plain the somnolence observed with this drug

Ziprasidone's antagonism of a padrenergic receptors explain the orthostatic hypotension observed with this desired in the orthostatic hypotension of the orthostatic hypotension hypote **Pharmacokinetics**

Ziprasidone's activity is primarily due to the parent de The multiple dose pharmacokinetics of ziprasidone dose-proportional within the proposed clinical dose rate dose-proportional within the proposed clinical dose ri and ziprasidone accumulation is predictable with mul-dosing. Elimination of ziprasidone is mainly via hepatic-tabolism with a mean terminal half-life of about 7 by within the proposed clinical dose range. Steady-state within the proposed clinical dose range. Steady-state centrations are achieved within one to three days of dose.

The mean apparent systemic clearance is 7.5 ml/min/s. Ziprasidone is unlikely to interfere with the metabolish drugs metabolized by cytochrome P450 enzymes.

Absorption: Ziprasidone is well absorbed after oral

absorption: Ziprasidone is well ausorocca and state istration, reaching peak plasma concentrations in final interest binavailability of a 20 mg dose hours. The absolute bioavailability of a 20 mg dose more fed conditions is approximately 60%. The absorption ziprasidone is increased up to two-fold in the pre-

food.

Distribution: Ziprasidone has a mean apparent volume distribution of 1.5 L/kg. It is greater than 99% bound plasma proteins, binding primarily to albumin and aglycoprotein. The in vitro plasma protein binding primarily to albumin and aglycoprotein. Distribution: Ziprasidone has a mean apparent volume ziprasidone was not altered by warfarin or propranda highly protein-bound drugs, nor did ziprasidone altered binding of these drugs in human plasma. Thus, the tial for drug interactions with ziprasidone due to dis

Metabolism and Elimination: Ziprasidone is extended after oral administration with only amount excreted in the wine (CC) amount excreted in the urine (<1%) or feces (<4%) changed drug. Ziprasidone is primarily cleared via metabolic routes to yield four major circulating metabolic benzisothiazole (BITP) sulphoxide, BITP-sulprasidone sulphoxide, and S-methyl-dihydrotipra Approximately 20% of the dose is excreted in the unit approximately 66% being eliminated in the feet changed rings ideas are stated rings. changed ziprasidone represents about 44% of total related material in serum. In vitro studies using liver subcellular fractions indicate that S-methy. droziprasidone is generated in two steps. The data that the reduction reaction is mediated by aldehrdad that the reduction reaction is mediated by alderly and the subsequent methylation is mediated by the and the subsequent methylation is mediated by any litransferase. In vitro studies using human crosomes and recombinant enzymes indicate that is the major CYP contributing to the oxidative of ziprasidone. CYP1A2 may contribute to a much tent. Based on in vivo abundance of excretory me less than one-third of ziprasidone metabolic cleared. diated by cytochrome P450 catalyzed oxidation and imately two-thirds via reduction by aldehyde oxidate are no known clinically relevant inhibitors or indoc. dehyde oxidase.

Special Populations Age and Gender Effects-In a multiple-dose Age and Gender Effects—In a multiple treatment) study involving 32 subjects, there was ence in the pharmacokinetics of ziprasidone between the ziprasidone between the pharmacokinetics of ziprasidone between the and women or between elderly (>65 years) and 45 years) subjects. Additionally, population netic evaluation of patients in controlled trials

no evidence of clinically significant age or differences in the pharmacokinetics of zipraside modifications for age or gender are, therefore mended

investigate the effects of race. Population phere evaluation has revealed no evidence of clinical race related differences in the phermateriprasidone. Dosage modifications ziprasidone. Dosage modifications for race. not recommended.

Smoking—Based on in vitro studies utilizing, enzymes, ziprasidone is not a substrate for the smoken and therefore not have an effect on the paties of signatures. Consider a with these states of signatures of sign netics of siprasidone. Consistent with these population pharmācokinetic evaluation have significant pharmacokinetic differences

ers and nonsmokers.

Renal Impairment—Because ziprasidore solized, with less than 1% of the drug excrete that impairment alone is unlikely to have the pharmacokinetics of ziprasidore. The of ziprasidore following 8 days of 20 mg

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An in vitro

interesomes act on CYP1 come thus we crue the have revealthetics of definition (see the rive students). rease in zip Arbamazeni directione /bidine or a: TIONS).
Clinical Triats
The efficacy of

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